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Federal Communications Commission
Office of Secretary

Ms. Marlene H. Dortch
Secretary to the
Federal Communications Commission
Washington, D.C. 20554

Re: Ex Parte Communication
WT Docket No. 05-157

Dear Ms. Dortch:

Today, Mr. Malik Audeh, Senior Engineer with Tropos Networks (Tropos), Mr. Nicholas Allard, Mr. Jeffrey Turner and I, representing Tropos, met with the staff of the Wireless Telecommunications Bureau (WTB). Those attending the meeting from WTB were Ms. Cathleen Massie, Ms. Jane Jackson, Mr. Michael Wilhelm, Mr. Tim Maguire, Mr. John Evanoff and Mr. Paul Moon.

At the meeting Mr. Audeh described the underpinnings of Tropos mesh technology, particularly in the public safety communications environment and how it delivers broadband on a metro scale size. In addition to the applications the technology is delivering, Mr. Audeh emphasized how it presents an affordable, resilient and durable communications network for emergency service agencies. A copy of Mr. Audeh's presentation is attached.

Respectfully,

John E. Logan

Attachment

Copy to: Ms. Massie, Ms. Jackson, Mr. Wilhelm, Mr. Maguire, Mr. Evanoff, Mr. Moon

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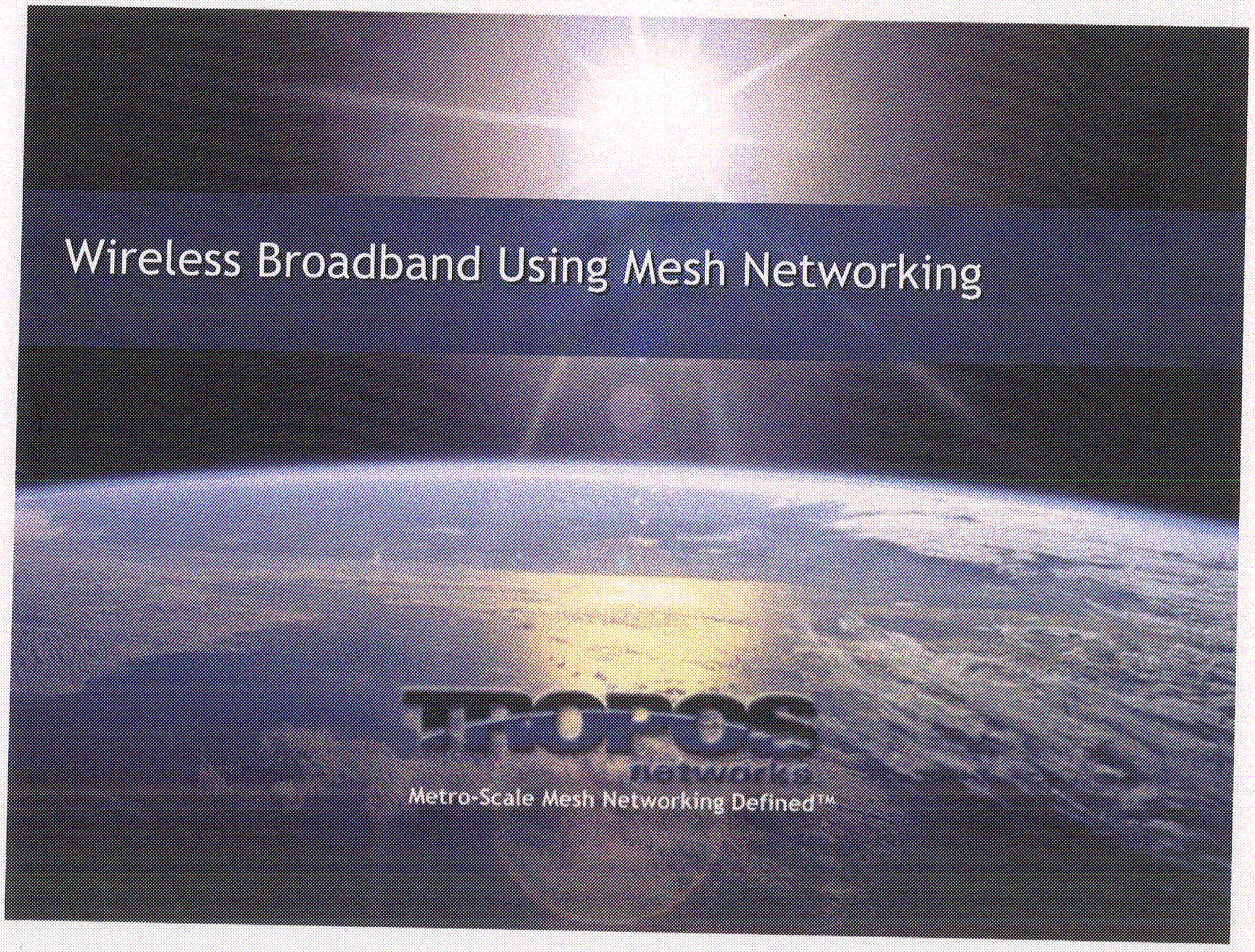
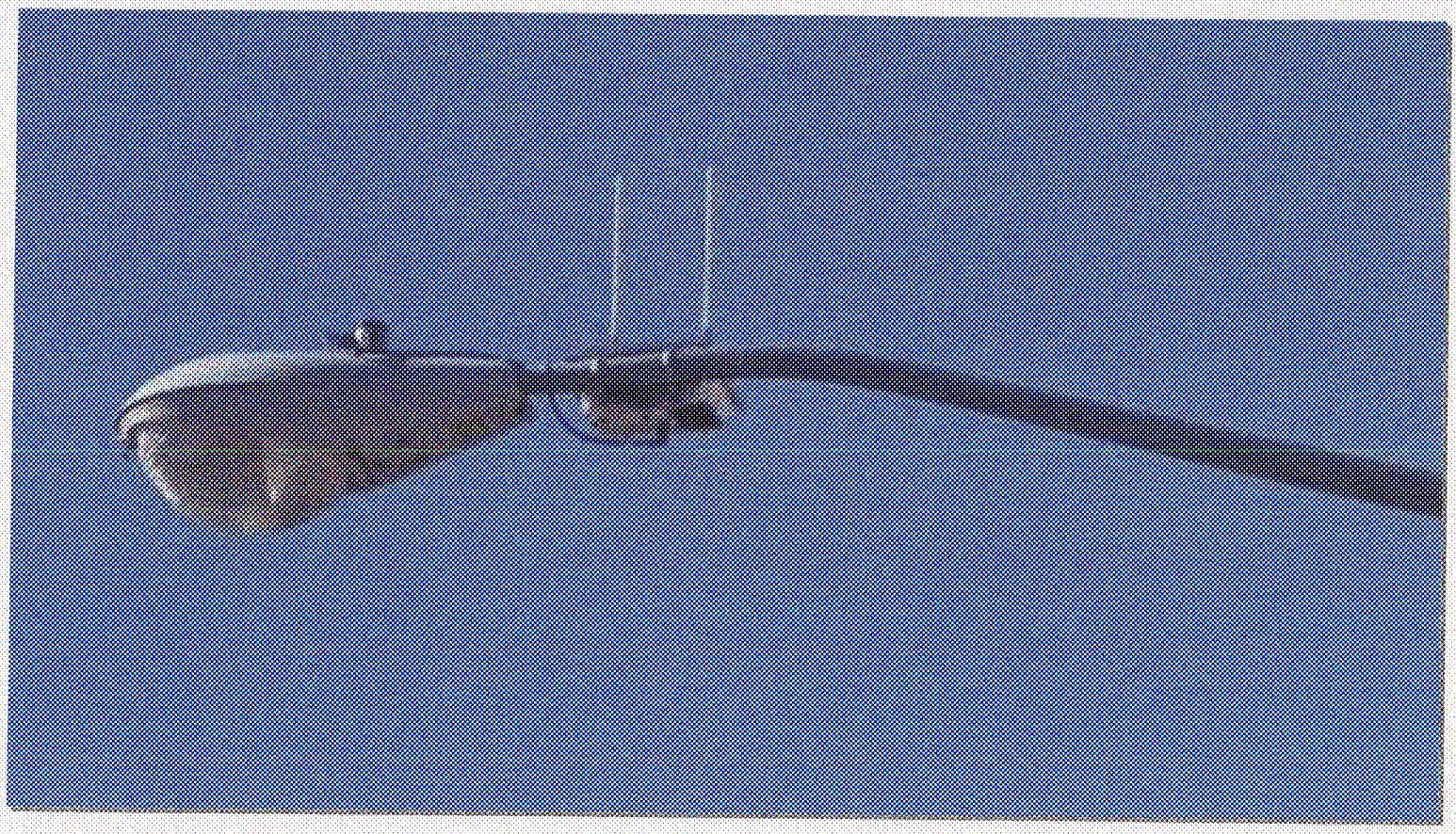
List A B C D E


Wireless Broadband Using Mesh Networking
Metro-Scale Mesh Networking Defined™

TROPOS networks

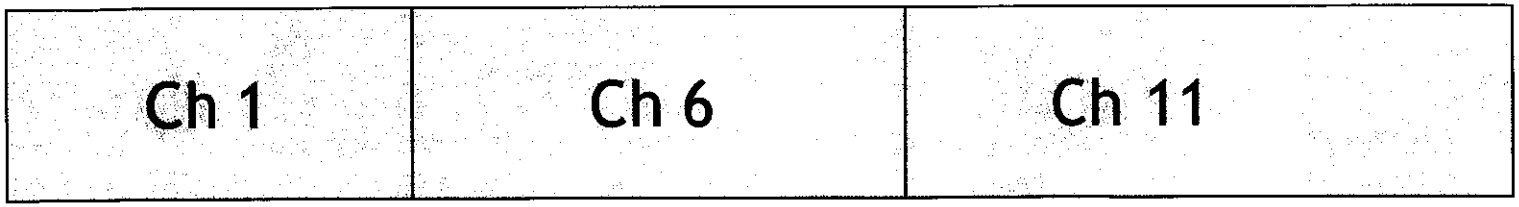
Tropos 5210 installation



TROPOS networks

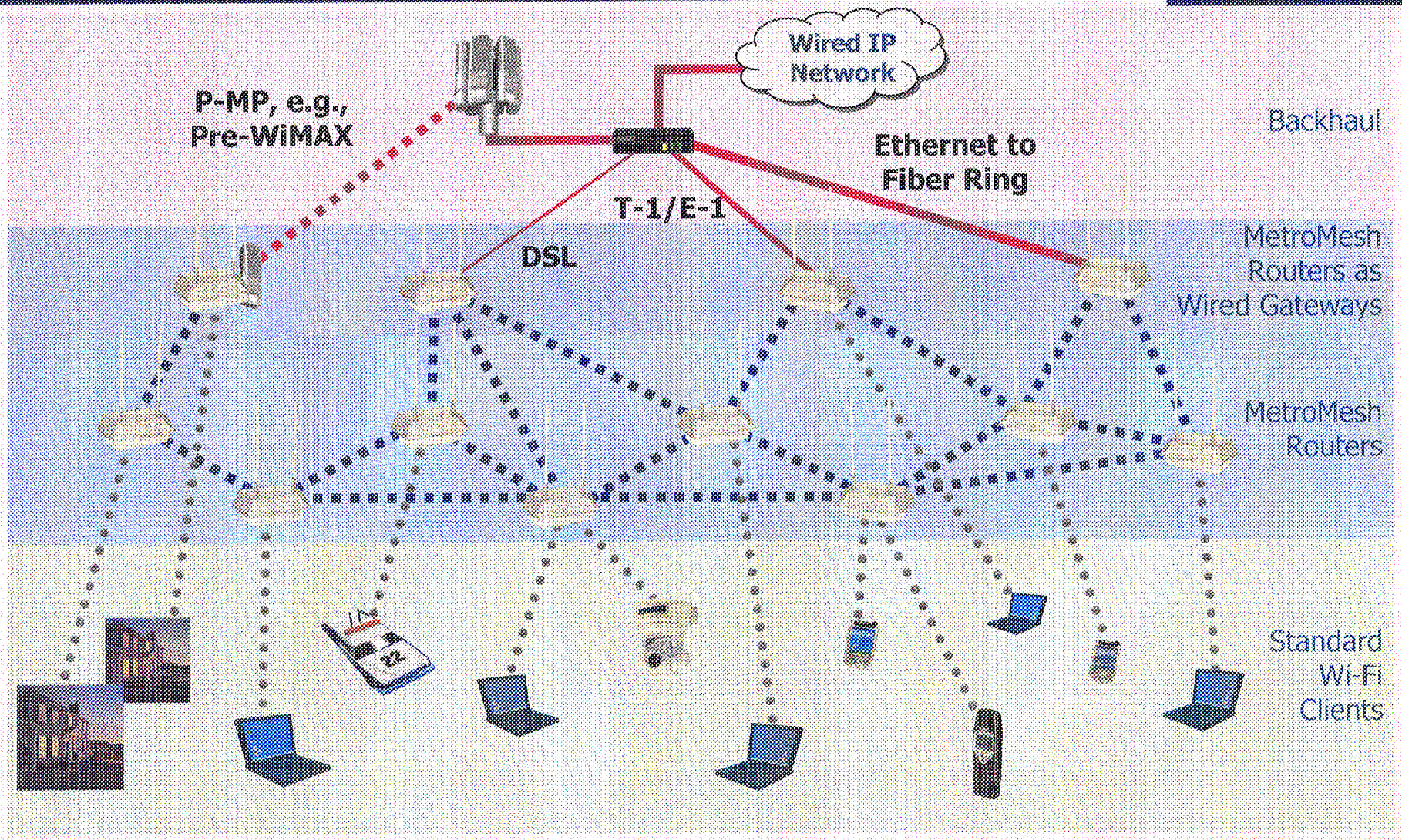
Standards-Based Metro-Scale Wi-Fi

- Uses 2400-2483.5 MHz unlicensed spectrum
- Widely adopted 802.11b/g technology
- Uses one of three non-overlapping 20 MHz channels
- Transmit EIRP up to 4 Watts



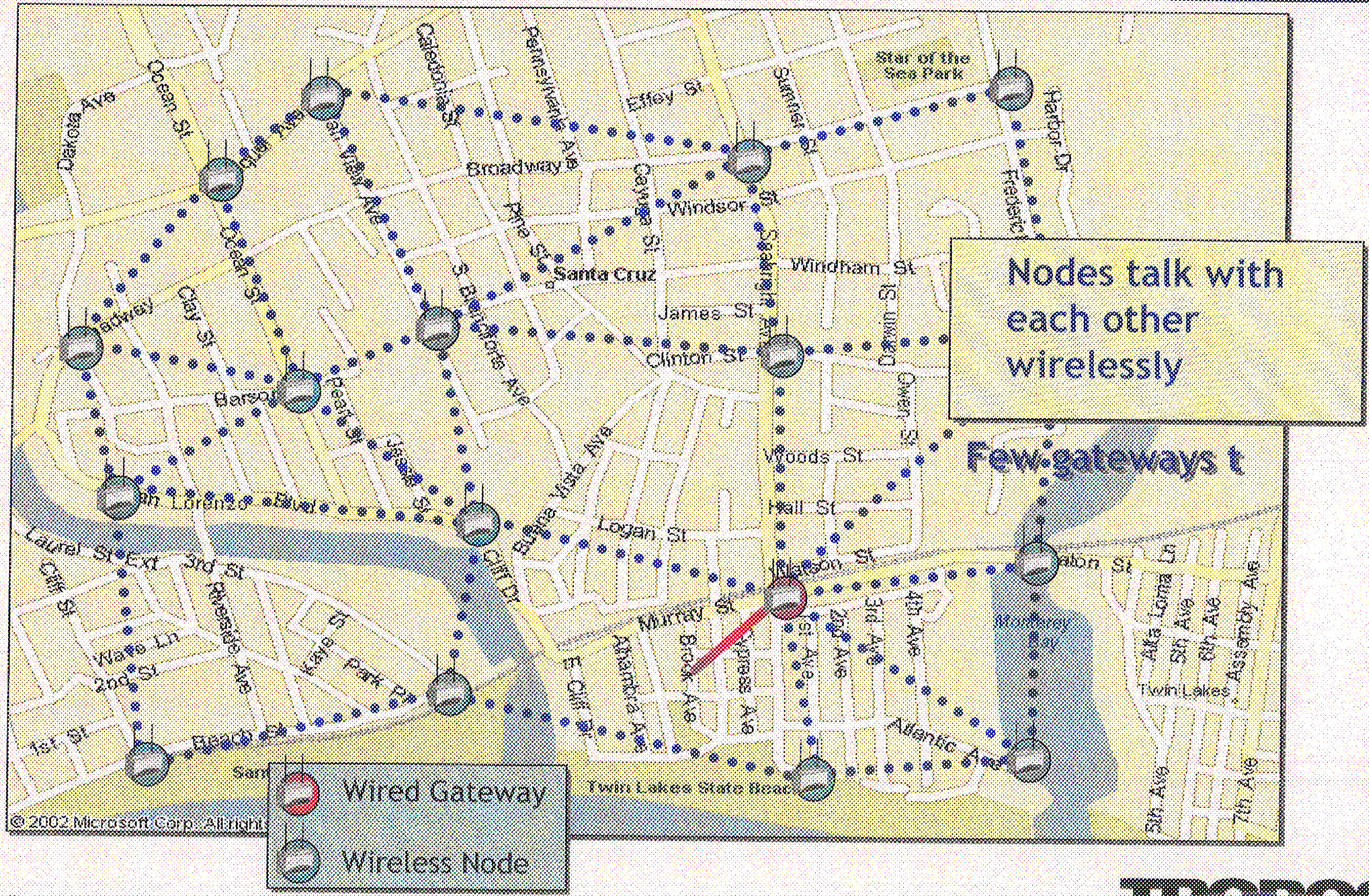
TROPOS networks

Tropos Architecture



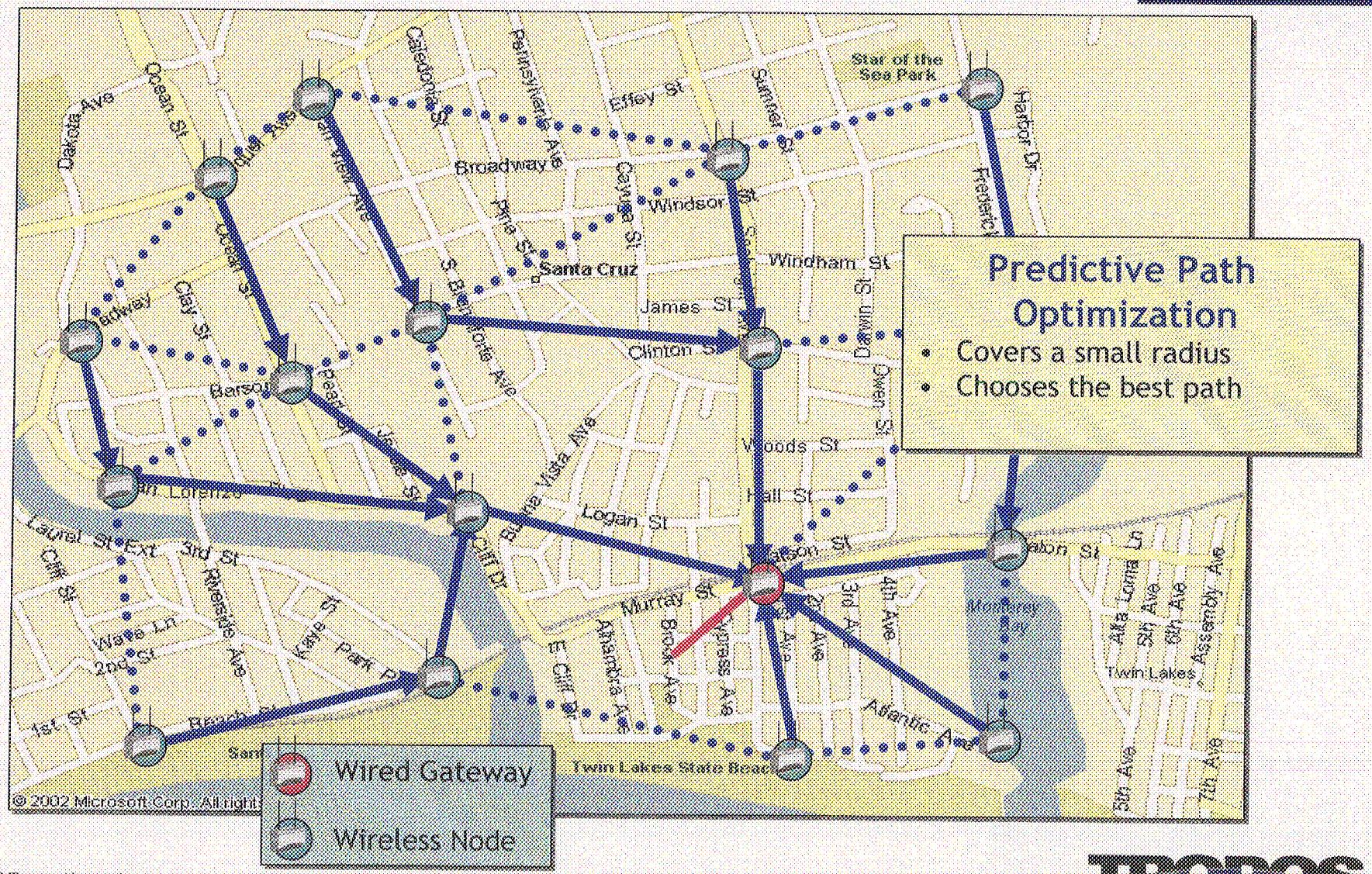
TROPOS networks

PICO Cell Mesh Architecture



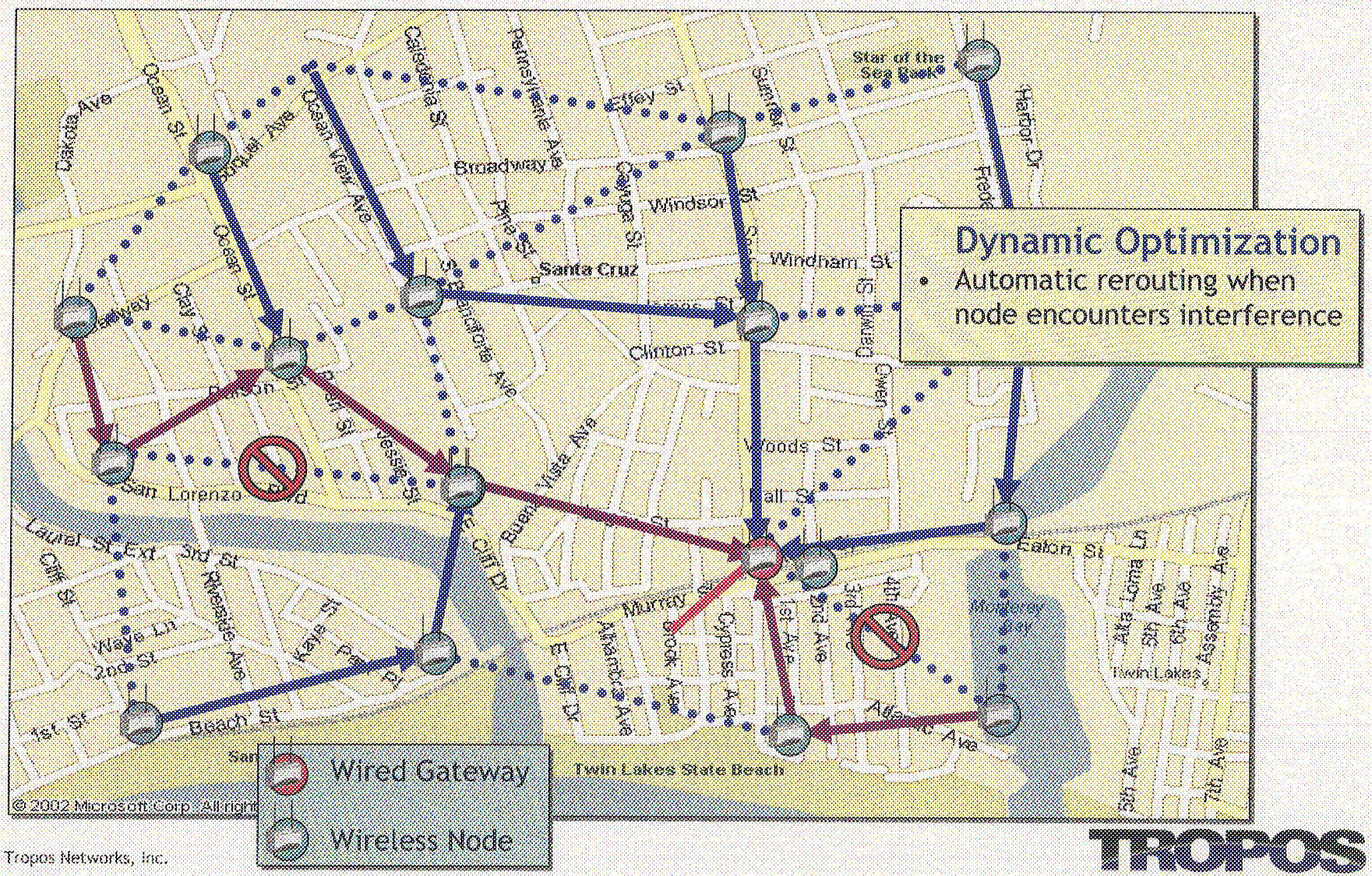
TROPOS networks

PICO Cell Mesh Architecture



TROPOS networks

PICO Cell Mesh Architecture



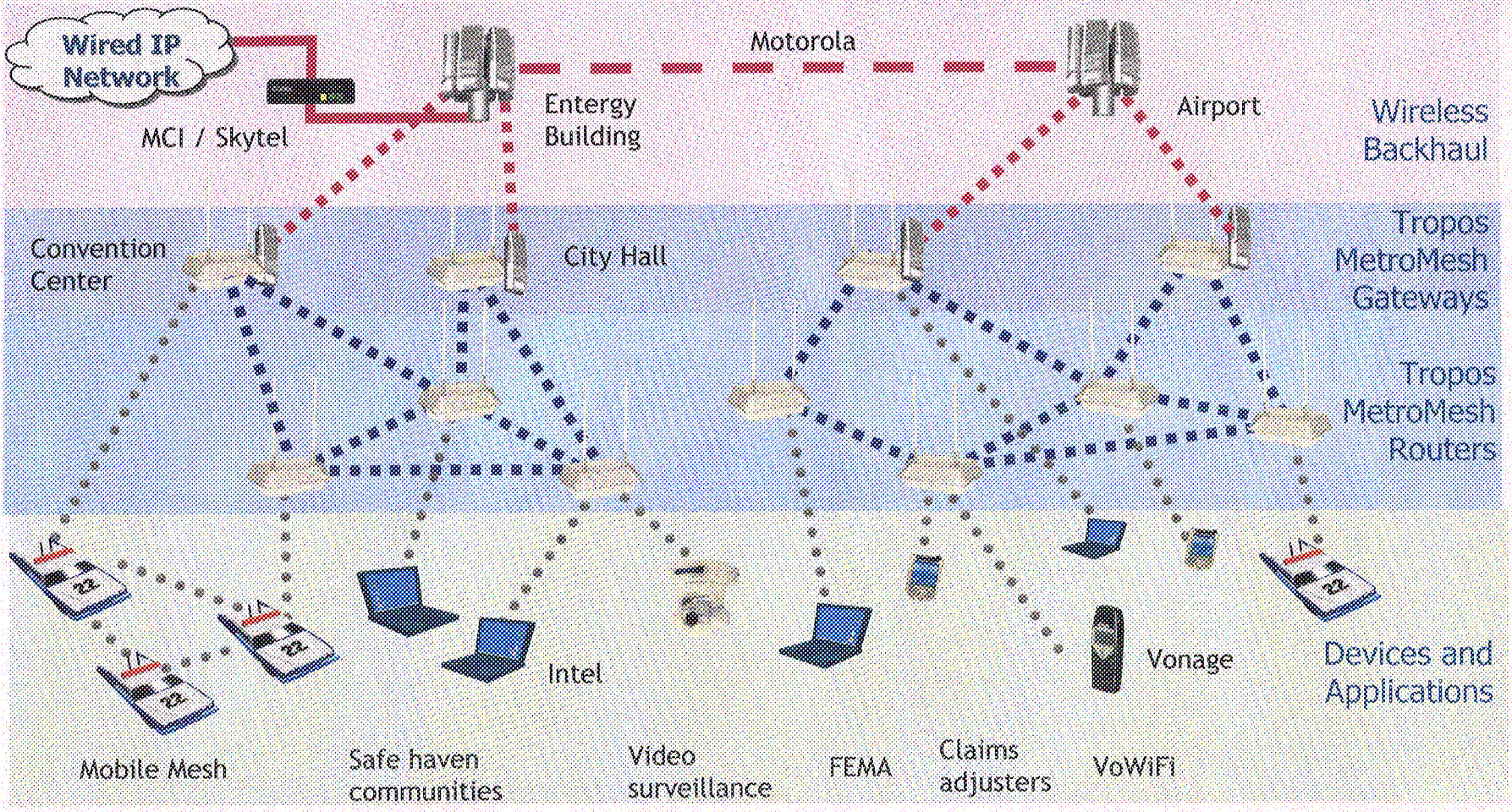
TROPOS networks

MetroMesh New Orleans Disaster Recovery

- 22 new self-healing MetroMesh networks deployed in under three weeks
- Open standard Wi-Fi equipment and unlicensed spectrum enable off-the-shelf consumer devices to connect to the Internet
- Providing first responders, FEMA, Red Cross, and Public Safety officials telecommunications and Internet connectivity
- Highly robust, resilient networks survived Katrina
- Low-cost -- < $100K/square mile of coverage

TROPOS networks

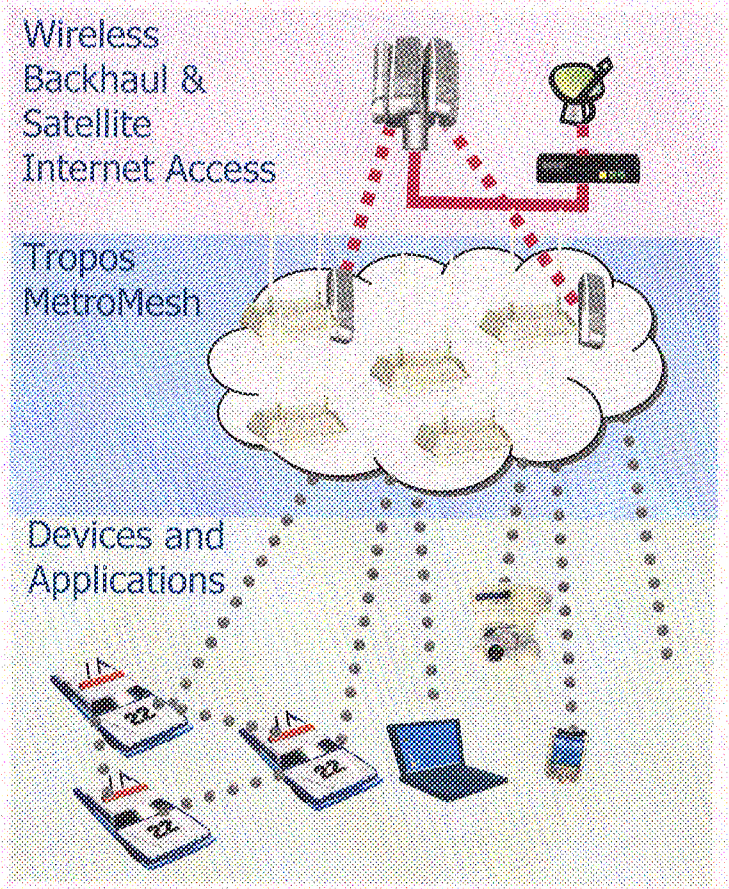
Katrina's Aftermath: Tropos Partners' NO Solution



TROPOS networks

Tropos & Partners' Off-the-Shelf Solution

- One solution uses a combination of wireless and off-the-shelf consumer satellite access to rapidly provide telecommunications services for remote communities.
- Other partners are developing portable, self sufficient MetroMesh solutions that include a generator, solar power, battery backup and mounting poles



TROPOS networks

MetroMesh - Fast

- Critical services and evacuees benefit during/following a catastrophic event
  - A resilient, low cost wireless mobile data network in the public radio spectrum can be shared by first responders and FEMA
    - Public safety, video surveillance, and VoWiFi applications when they are most needed
  - Red Cross and residents evacuated to safe haven communities have access to information
    - Evacuee registration, insurance adjusters, business relocation, housing searches, and on-line banking

TROPOS networks

Self-Healing MetroMesh - Tough

- Highly resilient, robust, durable communication network
  - MetroMesh equipment is designed and built for environmental extremes (165 mph wind resistance, military standard salt / fog resistance, ETSI shock / vibration resistance, and battery backup)
  - A MetroMesh network sustaining damage heals itself by intelligently routing around the damage
  - Tropos MetroMesh routers in New Orleans supporting video surveillance applications survived Katrina

TROPOS networks

Conclusion

- Mesh Technology Reflects Core Attributes of Public Safety-Diverse, Redundant, Resilient and Expeditious
- Substantial efficiencies emanate from technology character, ease of construction and low operational needs translating to significant cost savings
- Broadband wireless technology creates new deployment opportunities for facilities based competition

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